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RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/529,206D

DATE: 11/21/2002

TIME: 10:25:26

Input Set : A:\218791.txt

Output Set: N:\CRF4\11212002\I529206D.raw

3 <110> APPLICANT: Wang Rong, Fu
4 Rosenberg, Steven
6 <120> TITLE OF INVENTION: Novel Human Cancer Antigen NY ESO-1/CAG-3 and Gene
7 Encoding Same
9 <130> FILE REFERENCE: 218791
11 <140> CURRENT APPLICATION NUMBER: 09/529,206D
12 <141> CURRENT FILING DATE: 2000-06-13
14 <150> PRIOR APPLICATION NUMBER: PCT/US98/19609
15 <151> PRIOR FILING DATE: 1998-09-21
17 <150> PRIOR APPLICATION NUMBER: US60/061,428
18 <151> PRIOR FILING DATE: 1997-10-08
20 <160> NUMBER OF SEQ ID NOS: 127
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 805
26 <212> TYPE: DNA
27 <213> ORGANISM: Homo sapiens
29 <400> SEQUENCE: 1
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31 ctgagagccg ggcagaggct ccggagccat gcaggccgaa ggccggggca caggggggtc 120
32 gacggggcat gctgatggcc caggaggccc tggcattcct gatggcccag ggggcaatgc 180
33 tggcggccca ggagaggcgg gtgccacggg cggcagaggt ccccggggag caggggcagc 240
34 aagggcctcg gggccgggag gaggcgcccc gcgggggtccg catggcgggc cggcttcagg 300
35 gctgaatgga tgctgcagat gcggggccag ggggcccagg agccgcctgc ttgagttcta 360
36 cctcgccatg cctttcgcca caccatgga agcagagctg gcccgcagga gcctggccca 420
37 ggatgcccc cgccttccc tgccaggggt gcttctgaag gagttcactg tgtccggcaa 480
38 catactgact atccgactga ctgctgcaga ccaccgcaa ctgcagctct ccatcagctc 540
39 ctgtctccag cagctttccc tgttgatgtg gatcacgcag tgctttctgc ccgtgttttt 600
40 ggctcagcct ccctcagggc agaggcgcta agcccagcct ggcgcccctt cctaggtcat 660
41 gcctcctccc ctagggaatg gtcccagcac gaggggccag ttcattgtgg gggcctgatt 720
42 gtttgcgct ggaggaggac ggcttacatg tttgtttctg tagaaaataa aactgagcta 780
43 cgaaaaaaaa aaaaaaaaaa aaaaa 805
46 <210> SEQ ID NO: 2
47 <211> LENGTH: 540
48 <212> TYPE: DNA
49 <213> ORGANISM: Homo sapiens
51 <400> SEQUENCE: 2
52 atgcaggccg aaggccgggg cacagggggt tcgacgggag atgctgatgg cccaggaggc 60
53 cctggcattc ctgatggccc agggggcaat gctggcggcc caggagaggc gggtgccacg 120
54 ggccggcagag gtccccgggg cgcaggggca gcaaggccct cggggccggg aggaggcgcc 180
55 ccgcgggggtc cgcattggcg cgcggcttca gggctgaatg gatgctgcag atgcggggcc 240
56 agggggccgg agagccgcct gcttgagttc tacctcgcca tgcctttcgc gacacccatg 300
57 gaagcagagc tggcccgag gagcctggcc caggatgccc caccgcttc cgtgccaggg 360

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58 gtgcttctga aggagttcac tgtgtccggc aacatactga ctatccgact gactgctgca 420
 59 gaccaccgcc aactgcagct ctccatcagc tcctgtctcc agcagcttcc cctgttgatg 480
 60 tggatcacgc agtgctttct gcccggtgtt ttggctcagc ctccctcagg gcagaggcgc 540

63 <210> SEQ ID NO: 3

64 <211> LENGTH: 174

65 <212> TYPE: DNA

66 <213> ORGANISM: Homo sapiens

68 <400> SEQUENCE: 3

69 atgctgatgg cccaggaggc cctggcattc ctgatggccc aggggggcaat gctggcggcc 60
 70 caggagaggc ggggtgccacg ggcggcagag gtccccgggg cgcaggggca gcaagggcct 120
 71 cggggccggg aggaggcgcc ccgcgggggc cgcatggcgg cgcggttca gggc. 174

74 <210> SEQ ID NO: 4

75 <211> LENGTH: 180

76 <212> TYPE: PRT

77 <213> ORGANISM: Homo sapiens

79 <400> SEQUENCE: 4

80 Met Gln Ala Glu Gly Arg Gly Thr Gly Gly Ser Thr Gly Asp Ala Asp
 81 1 5 10 15
 83 Gly Pro Gly Gly Pro Gly Ile Pro Asp Gly Pro Gly Gly Asn Ala Gly
 84 20 25 30
 86 Gly Pro Gly Glu Ala Gly Ala Thr Gly Gly Arg Gly Pro Arg Gly Ala
 87 35 40 45
 89 Gly Ala Ala Arg Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg Gly Pro
 90 50 55 60
 92 His Gly Gly Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg Cys Gly Ala
 93 65 70 75 80
 95 Arg Gly Pro Glu Ser Arg Leu Leu Glu Phe Tyr Leu Ala Met Pro Phe
 96 85 90 95
 98 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg Arg Ser Leu Ala Gln Asp
 99 100 105 110
 101 Ala Pro Pro Leu Pro Val Pro Gly Val Leu Leu Lys Glu Phe Thr Val
 102 115 120 125
 104 Ser Gly Asn Ile Leu Thr Ile Arg Leu Thr Ala Ala Asp His Arg Gln
 105 130 135 140
 107 Leu Gln Leu Ser Ile Ser Ser Cys Leu Gln Gln Leu Ser Leu Leu Met
 108 145 150 155 160
 110 Trp Ile Thr Gln Cys Phe Leu Pro Val Phe Leu Ala Gln Pro Pro Ser
 111 165 170 175

113 Gly Gln Arg Arg

114 180

117 <210> SEQ ID NO: 5

118 <211> LENGTH: 58

119 <212> TYPE: PRT

120 <213> ORGANISM: Homo sapiens

122 <400> SEQUENCE: 5

123 Met Leu Met Ala Gln Glu Ala Leu Ala Phe Leu Met Ala Gln Gly Ala
 124 1 5 10 15
 126 Met Leu Ala Ala Gln Glu Arg Arg Val Pro Arg Ala Ala Glu Val Pro
 127 20 25 30

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129 Gly Ala Gln Gly Gln Gln Gly Pro Arg Gly Arg Glu Glu Ala Pro Arg
130           35           40           45
132 Gly Val Arg Met Ala Ala Arg Leu Gln Gly
133           50           55
136 <210> SEQ ID NO: 6
137 <211> LENGTH: 9
138 <212> TYPE: PRT
139 <213> ORGANISM: Homo sapiens
141 <400> SEQUENCE: 6
142 Ala Gln Pro Pro Ser Gly Gln Arg Arg
143   1           5
146 <210> SEQ ID NO: 7
147 <211> LENGTH: 9
148 <212> TYPE: PRT
149 <213> ORGANISM: Homo sapiens
151 <400> SEQUENCE: 7
152 Thr Pro Met Glu Ala Glu Leu Ala Arg
153   1           5
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 9
158 <212> TYPE: PRT
159 <213> ORGANISM: Homo sapiens
161 <400> SEQUENCE: 8
162 Pro Met Glu Ala Glu Leu Ala Arg Arg
163   1           5
166 <210> SEQ ID NO: 9
167 <211> LENGTH: 9
168 <212> TYPE: PRT
169 <213> ORGANISM: Homo sapiens
171 <400> SEQUENCE: 9
172 Gly Ala Thr Gly Gly Arg Gly Pro Arg
173   1           5
176 <210> SEQ ID NO: 10
177 <211> LENGTH: 9
178 <212> TYPE: PRT
179 <213> ORGANISM: Homo sapiens
181 <400> SEQUENCE: 10
182 Gly Pro Arg Gly Ala Gly Ala Ala Arg
183   1           5
186 <210> SEQ ID NO: 11
187 <211> LENGTH: 9
188 <212> TYPE: PRT
189 <213> ORGANISM: Homo sapiens
191 <400> SEQUENCE: 11
192 Leu Ala Gln Pro Pro Ser Gly Gln Arg
193   1           5
196 <210> SEQ ID NO: 12
197 <211> LENGTH: 9
198 <212> TYPE: PRT

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199 <213> ORGANISM: Homo sapiens
201 <400> SEQUENCE: 12
202 Val Ser Gly Asn Ile Leu Thr Ile Arg
203   1           5
206 <210> SEQ ID NO: 13
207 <211> LENGTH: 9
208 <212> TYPE: PRT
209 <213> ORGANISM: Homo sapiens
211 <400> SEQUENCE: 13
212 Ile Arg Leu Thr Ala Ala Asp His Arg
213   1           5
216 <210> SEQ ID NO: 14
217 <211> LENGTH: 9
218 <212> TYPE: PRT
219 <213> ORGANISM: Homo sapiens
221 <400> SEQUENCE: 14
222 Ser Gly Pro Gly Gly Gly Ala Pro Arg
223   1           5
226 <210> SEQ ID NO: 15
227 <211> LENGTH: 10
228 <212> TYPE: PRT
229 <213> ORGANISM: Homo sapiens
231 <400> SEQUENCE: 15
232 Thr Val Ser Gly Asn Ile Leu Thr Ile Arg
233   1           5          10
236 <210> SEQ ID NO: 16
237 <211> LENGTH: 10
238 <212> TYPE: PRT
239 <213> ORGANISM: Homo sapiens
241 <400> SEQUENCE: 16
242 Thr Ile Arg Leu Thr Ala Ala Asp His Arg
243   1           5          10
246 <210> SEQ ID NO: 17
247 <211> LENGTH: 10
248 <212> TYPE: PRT
249 <213> ORGANISM: Homo sapiens
251 <400> SEQUENCE: 17
252 Ala Thr Pro Met Glu Ala Glu Leu Ala Arg
253   1           5          10
256 <210> SEQ ID NO: 18
257 <211> LENGTH: 10
258 <212> TYPE: PRT
259 <213> ORGANISM: Homo sapiens
261 <400> SEQUENCE: 18
262 Phe Leu Ala Gln Pro Pro Ser Gly Gln Arg
263   1           5          10
266 <210> SEQ ID NO: 19
267 <211> LENGTH: 10
268 <212> TYPE: PRT

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269 <213> ORGANISM: Homo sapiens
271 <400> SEQUENCE: 19
272 Thr Pro Met Glu Ala Glu Leu Ala Arg Arg
273   1               5               10
276 <210> SEQ ID NO: 20
277 <211> LENGTH: 10
278 <212> TYPE: PRT
279 <213> ORGANISM: Homo sapiens
281 <400> SEQUENCE: 20
282 Arg Cys Gly Ala Arg Gly Pro Glu Ser Arg
283   1               5               10
286 <210> SEQ ID NO: 21
287 <211> LENGTH: 10
288 <212> TYPE: PRT
289 <213> ORGANISM: Homo sapiens
291 <400> SEQUENCE: 21
292 Ala Ala Ser Gly Leu Asn Gly Cys Cys Arg
293   1               5               10
296 <210> SEQ ID NO: 22
297 <211> LENGTH: 10
298 <212> TYPE: PRT
299 <213> ORGANISM: Homo sapiens
301 <400> SEQUENCE: 22
302 Leu Ala Gln Pro Pro Ser Gly Gln Arg Arg
303   1               5               10
306 <210> SEQ ID NO: 23
307 <211> LENGTH: 10
308 <212> TYPE: PRT
309 <213> ORGANISM: Homo sapiens
311 <400> SEQUENCE: 23
312 Arg Gly Pro Arg Gly Ala Gly Ala Ala Arg
313   1               5               10
316 <210> SEQ ID NO: 24
317 <211> LENGTH: 10
318 <212> TYPE: PRT
319 <213> ORGANISM: Homo sapiens
321 <400> SEQUENCE: 24
322 Leu Asn Gly Cys Cys Arg Cys Gly Ala Arg
323   1               5               10
326 <210> SEQ ID NO: 25
327 <211> LENGTH: 10
328 <212> TYPE: PRT
329 <213> ORGANISM: Homo sapiens
331 <400> SEQUENCE: 25
332 Ala Ser Gly Pro Gly Gly Gly Ala Pro Arg
333   1               5               10
336 <210> SEQ ID NO: 26
337 <211> LENGTH: 15
338 <212> TYPE: PRT

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/529,206D

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Input Set : A:\218791.txt
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:54; Xaa Pos. 1,2,3,4,5,6,7,8,9,10,11,12,20